

### Amendments to the Claims

1-24 (Cancelled)

25. (Previously presented) A transgenic plant cell comprising an endogenous nucleotide sequence identical or at least 98% sequence similarity and encoding a polypeptide having 3'-5' exonuclease activity to SEQ ID NO:23, and wherein said plant cell comprises a mutation in said endogenous nucleotide sequence, or in a regulatory region thereof.

26. (Previously presented) The transgenic plant cell of claim 25, wherein the mutation is due to an insertion of a nucleic acid molecule.

27. (Previously presented) The transgenic plant cell according to claim 26, wherein the insertion of a nucleic acid molecule comprises one T-DNA border region.

28[[29]]. (Currently amended) The transgenic plant cell according to claim 27, wherein the insertion comprises a transposable element.

29-37 (Cancelled)

38. (Previously presented) A transgenic plant or progeny thereof, or seeds thereof comprising the plant cell of claim 25.

39. (Previously presented) A transgenic plant or progeny thereof, or seeds thereof comprising the plant cell of claim 26.

40-44 (Cancelled)

45. (Previously presented) A method for altering the expression in a plant cell or plant of an endogenous nucleotide sequence encoding a polypeptide comprising a 3'-5' exonuclease domain, wherein said polypeptide is identical to SEQ ID NO:24, wherein

altering the transcription or translation of said endogenous nucleotide sequence in the plant cell or plant comprises the step of:

- a) expressing in said plant cell a nucleotide sequence identical or has at least 98% sequence similarity and encodes a polypeptide having 3'-5' exonuclease activity to SEQ ID NO:23, or a portion thereof, in sense orientation; or
- b) expressing in said plant cell a nucleotide sequence identical or has at least 98% sequence similarity and encodes a polypeptide having 3'-5' exonuclease activity to SEQ ID NO:23, or a portion thereof, in anti-sense orientation; or
- c) expressing in said plant cell a sense RNA of a nucleotide sequence identical or has at least 98% sequence similarity and encodes a polypeptide having 3'-5' exonuclease activity to SEQ ID NO:23, or a portion thereof, and an anti-sense RNA of said nucleotide sequence identical or has at least 98% sequence similarity and encodes a polypeptide having 3'-5' exonuclease activity to SEQ ID NO:23, or a portion thereof, wherein said sense and said anti-sense RNAs are capable of forming a double-stranded RNA molecule; or
- d) expressing in said plant cell a ribozyme capable of specifically cleaving a messenger RNA transcript encoded by a nucleotide sequence identical or has at least 98% sequence similarity and encodes a polypeptide having 3'-5' exonuclease activity to SEQ ID NO:23; or
- e) expressing in said plant cell a zinc finger protein that is capable of binding to a nucleotide sequence identical or has at least 98% sequence similarity and encodes a polypeptide having 3'-5' exonuclease activity to SEQ ID NO:23, or to a regulatory region thereof; or
- f) modifying by insertional mutagenesis in said plant cell at least one chromosomal copy of the nucleotide sequence identical or having at least 98% sequence similarity and encoding a polypeptide having 3'-5' exonuclease activity to SEQ ID NO:23 or of a regulatory region thereof.

46-47 (Cancelled)

48. (Previously presented) A method for altering the expression of a nucleotide sequence of interest in a plant cell or plant comprising the steps of:

- a) altering the expression in said plant cell or plant of an endogenous nucleotide sequence of said plant cell that is identical or having at least 98% sequence similarity to SEQ ID NO:23; wherein step a) comprises:
- i) expressing in said plant cell or plant a nucleotide sequence identical or has at least 98% sequence similarity and encodes a polypeptide having 3'-5' exonuclease activity to SEQ ID NO:23, or a portion thereof, in sense orientation; or
  - ii) expressing in said plant cell or plant a nucleotide sequence identical or has at least 98% sequence similarity and encodes a polypeptide having 3'-5' exonuclease activity to SEQ ID NO:23, or a portion thereof, in anti-sense orientation; or
  - iii) expressing in said plant cell or plant a sense RNA of a nucleotide sequence identical has at least 98% sequence similarity and encodes a polypeptide having 3'-5' exonuclease activity to SEQ ID NO:23, or a portion thereof, and an anti-sense RNA of said nucleotide sequence has at least 98% sequence similarity and encodes a polypeptide having 3'-5' exonuclease activity to SEQ ID NO:23, or a portion thereof, wherein said sense and said anti-sense RNAs are capable of forming a double-stranded RNA molecule; or
  - iv) expressing in said plant cell or plant a ribozyme capable of specifically cleaving a messenger RNA transcript encoded by a nucleotide sequence identical has at least 98% sequence similarity and encodes a polypeptide having 3'-5' exonuclease activity to SEQ ID NO:23; or
  - v) expressing in said plant cell or plant a zinc finger protein that is capable of binding to a nucleotide sequence to SEQ ID NO:23, or to a regulatory region thereof; or
  - vi) modifying by insertional mutagenesis in said plant cell at least one chromosomal copy of the nucleotide sequence identical or having at least 98% sequence similarity and encoding a polypeptide having 3'-5' exonuclease activity to SEQ ID NO:23 or of a regulatory region thereof; and
  - vii) introducing said plant cell or plant a nucleic acid molecule comprising said nucleotide sequence of interest, wherein the expression of said nucleotide sequence of interest in said plant cell or plant is altered.

52. (Previously presented) A method for stabilizing the expression of an exogenous nucleotide sequence of interest in a transgenic plant cell or plant comprising the steps of:

- a) obtaining a transgenic plant cell or plant having altered expression of an endogenous nucleotide sequence of said plant cell or plant comprising a first expression cassette that encodes a polypeptide comprising a 3'-5' exonuclease domain, and wherein said polypeptide is identical to an amino acid sequence of SEQ ID NO:24; and
- b) introducing into said transgenic plant cell or plant an exogenous nucleotide sequence of interest, wherein the expression of said exogenous nucleotide sequence of interest in said transgenic plant cell is stabilized as compared to the expression of said nucleotide sequence of interest in a plant cell or plant lacking said first expression cassette.

53. (Previously presented) The method according to claim 52, wherein said endogenous nucleotide sequence is identical or has at least 98% sequence similarity and encodes a polypeptide having 3'-5' exonuclease activity to a nucleotide sequence selected from the group consisting of SEQ ID NO:23.

54. (Previously presented) The method according to claim 52, wherein the expression of said endogenous nucleotide sequence is altered by:

- a) expressing in said plant cell a nucleotide sequence has at least 98% sequence similarity and encodes a polypeptide having 3'-5' exonuclease activity to SEQ ID NO:23, or a portion thereof, in sense orientation; or
- b) expressing in said plant cell a nucleotide sequence has at least 98% sequence similarity and encodes a polypeptide having 3'-5' exonuclease activity to SEQ ID NO:23, or a portion thereof, in anti-sense orientation; or
- c) expressing in said plant cell a sense RNA of a nucleotide sequence identical or has at least 98% sequence similarity and encodes a polypeptide having 3'-5' exonuclease activity to SEQ ID NO:23, or a portion thereof, and an anti-sense RNA of said nucleotide sequence SEQ ID NO:23, or a portion thereof, wherein said sense and said anti-sense RNAs are capable of forming a double-stranded RNA molecule; or

- d) expressing in said plant cell a ribozyme capable of specifically cleaving a messenger RNA transcript encoded by a nucleotide sequence identical or substantially similar to SEQ ID NO:1, SEQ ID NO:3, SEQ ID NO:5, SEQ ID NO:21, SEQ ID NO:9, SEQ ID NO:11, SEQ ID NO:13, SEQ ID NO:23, SEQ ID NO:35 or SEQ ID NO:37, or
- e) expressing in said plant cell an aptamer specifically directed to a polypeptide of SEQ ID NO:24, or
- f) introducing into said plant cell a chimeric oligonucleotide that is capable of modifying at least one chromosomal copy of the nucleotide sequence that has at least 98% sequence similarity and encodes a polypeptide having 3'-5' exonuclease activity to SEQ ID NO:23, or a regulatory region thereof; or
- (g) modifying by insertional mutagenesis in said plant cell at least one chromosomal copy of the nucleotide sequence identical or having at least 98% sequence similarity and encoding a polypeptide having 3'-5' exonuclease activity to SEQ ID NO:23 or of a regulatory region thereof.

55. (Previously presented) The method according to claim 54, wherein the expression of said endogenous nucleotide sequence is reduced.

56-57 (Cancelled)

58[[59]]. (Currently amended) The transgenic plant cell of claim 25, wherein the mutation is a deletion or rearrangement.

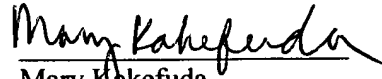
59[[60]]. (Currently amended) The transgenic plant cell of claim 25, wherein the mutation is a point mutation.

It is believed that no fee is due with this response. However, the Comissioner is hereby authorized to charge any fee under 37 C.F.R. §1.17, which may be required to maintain the pendency of the above application to Deposit Account No. 50-1744 in the name of Syngenta Biotechnology, Inc.

Respectfully submitted,

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